RTIFICATE OF MA	ILING BY FIRST CLA	SS MAIL (37 CFR 1.8)	Docket No. MCA-489 US
Serial No. 09/759,920	Filing Date 01/12/2001	Examiner Krishnan Menon	Group Art Unit
ention: OSYSTEM AND	METHOD FOR LIQUID FI	LTRATION BASED ON A NEUT	RAL FILTER MATERIAL
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Docket No.: MCA-489 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Kelly et al.

GROUP ART UNIT: 1723

SERIAL NO.: 09/759,920

FILED: 01/12/2001

TITLE:

SYSTEM AND METHOD FOR LIQUID FILTRATION BASED

ON A NEUTRAL FILTER MATERIAL

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Commissioner for Patents Washington, D.C. 20231

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TC 1700

Sir:

AMENDMENT

Responsive to the Office Action of July 3, 2002, please enter the following amendments and remarks. Please amend the application as follows:

IN THE CLAIMS

Applicants' invention is based on the discovery that particles in a fluid, regardless of particle charge can be removed by filtration with a porous filter by rendering the surfaces of the filter substantially neutral, as measured by Zeta Potential, in the fluid to be filtered. Applicants have found that the filtrate is not effected by a sieving effect but rather by Van der Waals forces. None of the prior art recognizes this phenomenon. This recognition permits the use of filters having pore sizes larger than would have been used by the prior art thereby permitting higher throughput rates through the filter.

The claims have been amended to define the fluid having a pH greater than about 4. This is due to the fact that a Pall Superetch filter (Table III, page 15 and Fig. 5 of applicants' application) provides a neutral filter in a fluid having a pH of 3 or less. This result appears to be by serendipity rather than being based upon the recognition that a filter having a neutral surface provides certain advantages provided by applicants since no such disclosure is provided by Pall. Accordingly, applicants invention permits filtering fluids having any pH by operating in the manner set forth in new claims 32-57.